

CLAIMS

I claim:

1. A drywall head for applying mastic compound to the adjacent walls of an unfinished corner, the drywall head being constructed of rigid material and comprising two inner guide surfaces set at generally 90° angles to each other, a top surface, a bottom surface, two side surfaces, a back wall surface, and an
5 interposed flow chamber situated within the drywall head to receive the supply of mastic compound, the drywall head comprising;

a tapered flow channels formed in each of the inner guide surface and in communication with the flow chamber, said flow channels including a leading edge, a trailing edge, and a pair of retaining walls that define the width of the flow
10 channel;

wherein the width of each flow channel at the leading edge is greater than the width of the flow channel at the trailing edge.

2. The drywall head of claim 1 wherein the drywall head contains a non-detachable ball assembly, the ball assembly designed to fit into a ball socket located in the back wall surface of the drywall head, the ball socket opening into the flow chamber, said ball assembly comprising a ball member and
5 an arm member.

3. The drywall head of claim 2 further comprising a C-spring assembly positioned to bias the drywall head into an application position, the C-spring assembly including a C-spring attached to the back wall of the drywall head at a first end and attached to the arm member of the ball assembly at a second end.

4. The drywall head of claim 1 wherein each of the sidewalls contain a pair of guide wheels to guide the drywall head along a wall corner.

5. The drywall head of claim 1 further comprising a plurality of spaced teeth positioned within the flow channel at the trailing edge of the flow channel.

6. The drywall head of claim 1 wherein the pair of flow channels are parallel to each other.

7. The drywall head on claim 1 wherein the volume of the flow channel at the leading edge is greater than the volume of the trailing edge.

8. A drywall head for applying mastic compound or other similar material to an outside corner edge of two adjoining drywall board sections to secure a tape-on corner, said drywall head being constructed of rigid material and comprising a pair of inner walls defining a generally 90° inside corner, a pair of sidewalls, a back wall, spaced from the inner walls by the sidewalls, a top wall, and a bottom wall, the drywall head comprising:

a flow chamber interposed between the walls of the drywall head, the flow chamber positioned to receive the supply of mastic compound; and

a tapered flow channel situated within each of the inner walls of the drywall head, wherein each flow channel is in communication with the flow chamber, each flow channel including a leading edge, a trailing edge, and a pair of retaining walls that define the width of the flow channel;

wherein the width of the flow channel at the leading edge is greater than the width of the flow channel at the trailing edge, and the trailing edge contains a plurality of spaced teeth at the trailing edge.

9. The drywall head of claim 8 further comprising:

a non-removable ball assembly attached to the back wall of the drywall head by closely fitting the ball assembly into a ball socket located within the back wall of the drywall head, the ball assembly for directing the flow of

5 mastic compound into the flow chamber from a delivery tool, wherein the ball assembly allows for pivotal movement of the drywall head in relation to the delivery tool; and

a C-spring attached to the back wall of the drywall head at a first end and attached to an arm member of the ball assembly at a second end, wherein the
10 C-spring restricts the pivotal movement of the drywall head.

10. The drywall head of claim 9 wherein each of the sidewalls contains a pair of guide wheels to guide the drywall head along a wall corner.

11. The drywall head of claim 9 further comprising a removable bull nose centering block positionable at the intersection of the inner walls to prevent flow of mastic compound into an unfinished corner.

12. A drywall head for applying mastic compound to adjacent walls of an unfinished corner, the drywall head being constructed of a rigid material and for use with a mastic delivery tool, the drywall head comprising:

- 5 a top surface;
- a bottom surface;
- a pair of inner walls defining a 90° inside corner;
- a pair of sidewalls;
- a back surface spaced from the inner walls by the sidewalls;
- a flow chamber formed in the drywall head;
- 10 a ball socket located within the back wall and in communication with the flow chamber;
- a pair of ports connecting the flow chamber to a pair of flow channels each situated within one of the inner walls, each channel comprising:
- 15 a leading edge;
- a trailing edge; and
- a pair of retaining walls that define the width of the flow channel;

wherein the trailing edge contains a plurality of spaced teeth situated within the channel and the width of the channel at the leading edge is greater than the width of the channel at the trailing edge.

13. The drywall head of claim 12 wherein a ball assembly is attached to the back wall by closely fitting the assembly into the ball socket, the ball assembly comprising a ball member jointed to an arm member.

14. The drywall head of claim 13 wherein the ball assembly allows for pivotal movement of the drywall head in relation to the delivery tool.

15. The drywall head of claim 14 further comprising a C-spring attached to the back wall of the drywall head at a first end and attached to the arm member of the ball assembly at a second end, wherein the C-spring restricts the pivotal movement at the drywall head.

16. The drywall head of claim 12 wherein each sidewalls contains a pair of guide wheels to guide the drywall head along a wall corner.

17. The drywall head of claim 12 wherein a removable bull nose centering block having a generally rectangular shape may be placed at the intersection of the inner walls to prevent flow of mastic compound into an unfinished corner.

18. The drywall head on claim 12 wherein the volume of the flow channel at the leading edge is greater than the volume of the trailing edge.

19. In a drywall head for use with a mastic delivery tool for applying at least one uniform strip of mastic compound to a section of drywall, the

drywall head being constructed of rigid material and including at least one inner wall including a flow channel for applying the strip of mastic material to the section of drywall and a back wall spaced from the inner wall by a pair of sidewalls, the improvement comprising:

a non-removable ball assembly attached to the back wall of the drywall head by fitting the ball assembly into a ball socket located within the back wall of the drywall head, the ball assembly for directing the flow of mastic compound into the flow chamber from the delivery tool, wherein the ball assembly allows for pivotal movement of the drywall head in relation to the delivery tool, the ball assembly comprising a ball member positioned within the ball socket and an arm member for receiving the flow of mastic compound from the mastic delivery tool; and

a bias member positioned between the drywall head and the ball assembly for restricting the pivotal movement of the drywall head relative to the mastic delivery tool.

20. The improvement of claim 19 wherein the bias assembly includes a C-spring having a first end attached to the back wall of the drywall head and a second end attached to the arm member of the ball assembly, wherein the C-spring restricts the pivotal movement of the drywall head and biases the drywall head into an application position.

21. The improvement of claim 20 wherein the flow channel extends between a leading edge and a trailing edge and has a width defined by a pair of retaining walls, wherein the width of the flow channel at the leading edge is greater than the width of the flow channel at the trailing edge.

22. The improvement of claim 21 wherein the trailing edge of the flow channel includes a plurality of spaced teeth.